Lee Zou

List of Publications by Year in Descending Order

97 papers	8,987 citations	41 h-index	94 g-index
139 ext. papers	11,095 ext. citations	15.2 avg, IF	6.68 L-index

#	Paper	IF	Citations
97	RAP80 suppresses the vulnerability of R-loops during DNA double-strand break repair.. *Cell Reports*, **2022**, 38, 110335	10.6	0
96	FMRP promotes transcription-coupled homologous recombination via facilitating TET1-mediated m5C RNA modification demethylation.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2116251119	11.5	2
95	DNA repair defects in cancer and therapeutic opportunities.. *Genes and Development*, **2022**, 36, 278-293	12.6	2
94	Sources, resolution and physiological relevance of R-loops and RNA-DNA hybrids.. *Nature Reviews Molecular Cell Biology*, **2022**,	48.7	7
93	loss overrides PARP inhibitor sensitivity driven by loss in prostate cancer.. *Science Advances*, **2022**, 8, eabl9794	14.3	0
92	Translesion DNA synthesis mediates acquired resistance to olaparib plus temozolomide in small cell lung cancer.. *Science Advances*, **2022**, 8, eabn1229	14.3	1
91	BRCA2 associates with MCM10 to suppress PRIMPOL-mediated repriming and single-stranded gap formation after DNA damage. *Nature Communications*, **2021**, 12, 5966	17.4	4
90	NR4A1 regulates expression of immediate early genes, suppressing replication stress in cancer. *Molecular Cell*, **2021**, 81, 4041-4058.e15	17.6	3
89	Temporally distinct post-replicative repair mechanisms fill PRIMPOL-dependent ssDNA gaps in human cells. *Molecular Cell*, **2021**, 81, 4026-4040.e8	17.6	14
88	Alternative lengthening of telomeres is a self-perpetuating process in ALT-associated PML bodies. *Molecular Cell*, **2021**, 81, 1027-1042.e4	17.6	14
87	An extended APOBEC3A mutation signature in cancer. *Nature Communications*, **2021**, 12, 1602	17.4	15
86	Co-regulation and function of / bidirectional genes in cancer. *ELife*, **2021**, 10,	8.9	3
85	RNA transcripts stimulate homologous recombination by forming DR-loops. *Nature*, **2021**, 594, 283-288	50.4	21
84	Targeting the DNA replication stress phenotype of KRAS mutant cancer cells. *Scientific Reports*, **2021**, 11, 3656	4.9	5
83	CARM1 regulates replication fork speed and stress response by stimulating PARP1. *Molecular Cell*, **2021**, 81, 784-800.e8	17.6	21
82	The cell cycle effects of PARP inhibitors underlie their selectivity toward BRCA1/2-deficient cells. *Genes and Development*, **2021**, 35, 1271-1289	12.6	6
81	Impacts of chromatin dynamics and compartmentalization on DNA repair. *DNA Repair*, **2021**, 105, 103162	4.3	2

80	An extending ATR-CHK1 circuitry: the replication stress response and beyond. *Current Opinion in Genetics and Development*, **2021**, 71, 92-98	4.9	7
79	Quantification of ongoing APOBEC3A activity in tumor cells by monitoring RNA editing at hotspots. *Nature Communications*, **2020**, 11, 2971	17.4	29
78	Identification of Somatically Acquired Mutations by cfDNA Analysis in Patients with Metastatic Breast Cancer. *Clinical Cancer Research*, **2020**, 26, 4852-4862	12.9	7
77	mC modification of mRNA serves a DNA damage code to promote homologous recombination. *Nature Communications*, **2020**, 11, 2834	17.4	40
76	Alternative lengthening of telomeres: from molecular mechanisms to therapeutic outlooks. *Cell and Bioscience*, **2020**, 10, 30	9.8	32
75	A genome-wide and cotranscriptional suppressor of R loops. *Genes and Development*, **2020**, 34, 863-864	12.6	1
74	ATR Protects the Genome against R Loops through a MUS81-Triggered Feedback Loop. *Molecular Cell*, **2020**, 77, 514-527.e4	17.6	46
73	An R-loop-initiated CSB-RAD52-POLD3 pathway suppresses ROS-induced telomeric DNA breaks. *Nucleic Acids Research*, **2020**, 48, 1285-1300	20.1	28
72	Inhibition of ATR-Chk1 signaling blocks DNA double-strand-break repair and induces cytoplasmic vacuolization in metastatic osteosarcoma. *Therapeutic Advances in Medical Oncology*, **2020**, 12, 1758835920956900	5.4	6
71	cGAS suppresses genomic instability as a decelerator of replication forks. *Science Advances*, **2020**, 6,	14.3	28
70	BRG1 Loss Predisposes Lung Cancers to Replicative Stress and ATR Dependency. *Cancer Research*, **2020**, 80, 3841-3854	10.1	13
69	Synthetic lethality by targeting the RUVBL1/2-TTT complex in mTORC1-hyperactive cancer cells. *Science Advances*, **2020**, 6, eaay9131	14.3	9
68	The BRUCE-ATR Signaling Axis Is Required for Accurate DNA Replication and Suppression of Liver Cancer Development. *Hepatology*, **2019**, 69, 2608-2622	11.2	15
67	Alternative Lengthening of Telomeres through Two Distinct Break-Induced Replication Pathways. *Cell Reports*, **2019**, 26, 955-968.e3	10.6	111
66	Critical questions in ovarian cancer research and treatment: Report of an American Association for Cancer Research Special Conference. *Cancer*, **2019**, 125, 1963-1972	6.4	22
65	Loss of Slug Compromises DNA Damage Repair and Accelerates Stem Cell Aging in Mammary Epithelium. *Cell Reports*, **2019**, 28, 394-407.e6	10.6	14
64	Passenger hotspot mutations in cancer driven by APOBEC3A and mesoscale genomic features. *Science*, **2019**, 364,	33.3	121
63	Calcium Influx Guards Replication Forks against Exonuclease 1. *Molecular Cell*, **2019**, 74, 1103-1105	17.6	2

62	Myc targeted CDK18 promotes ATR and homologous recombination to mediate PARP inhibitor resistance in glioblastoma. *Nature Communications*, **2019**, 10, 2910	17.4	42
61	Induction of BRCAness in Triple-Negative Breast Cancer by a CDK12/13 Inhibitor Improves Chemotherapy. *Cancer Cell*, **2019**, 36, 461-463	24.3	5
60	Analysis of DNA Damage Response Gene Alterations and Tumor Mutational Burden Across 17,486 Tubular Gastrointestinal Carcinomas: Implications for Therapy. *Oncologist*, **2019**, 24, 1340-1347	5.7	43
59	Localized protein biotinylation at DNA damage sites identifies ZPET, a repressor of homologous recombination. *Genes and Development*, **2019**, 33, 75-89	12.6	10
58	Spliceosome Mutations Induce R Loop-Associated Sensitivity to ATR Inhibition in Myelodysplastic Syndromes. *Cancer Research*, **2018**, 78, 5363-5374	10.1	67
57	A mitosis-specific and R loop-driven ATR pathway promotes faithful chromosome segregation. *Science*, **2018**, 359, 108-114	33.3	138
56	Ataxia Telangiectasia-Mutated and Rad3-Related Inhibition and Topoisomerase I Trapping Create a Synthetic Lethality in Cancer Cells. *Journal of Clinical Oncology*, **2018**, 36, 1628-1630	2.2	2
55	ROS-induced R loops trigger a transcription-coupled but BRCA1/2-independent homologous recombination pathway through CSB. *Nature Communications*, **2018**, 9, 4115	17.4	68
54	Getting a Genomic View of DNA Replication Stress. *Molecular Cell*, **2018**, 72, 201-203	17.6	1
53	DNA Replication Checkpoint: New ATR Activator Identified. *Current Biology*, **2017**, 27, R33-R35	6.3	11
52	Coupling of Homologous Recombination and the Checkpoint by ATR. *Molecular Cell*, **2017**, 65, 336-346	17.6	90
51	ATR inhibition disrupts rewired homologous recombination and fork protection pathways in PARP inhibitor-resistant BRCA-deficient cancer cells. *Genes and Development*, **2017**, 31, 318-332	12.6	205
50	Functions of Replication Protein A as a Sensor of R Loops and a Regulator of RNaseH1. *Molecular Cell*, **2017**, 65, 832-847.e4	17.6	128
49	RNA mA methylation regulates the ultraviolet-induced DNA damage response. *Nature*, **2017**, 543, 573-576	50.4	449
48	MRE11 and EXO1 nucleases degrade reversed forks and elicit MUS81-dependent fork rescue in BRCA2-deficient cells. *Nature Communications*, **2017**, 8, 860	17.4	194
47	Regulation of DNA break repair by transcription and RNA. *Science China Life Sciences*, **2017**, 60, 1081-1086	6.5	8
46	APOBEC3A and APOBEC3B Activities Render Cancer Cells Susceptible to ATR Inhibition. *Cancer Research*, **2017**, 77, 4567-4578	10.1	58
45	A phosphorylation-and-ubiquitylation circuitry driving ATR activation and homologous recombination. *Nucleic Acids Research*, **2017**, 45, 8859-8872	20.1	16

44	Functions, Regulation, and Therapeutic Implications of the ATR Checkpoint Pathway. *Annual Review of Genetics*, **2016**, 50, 155-173	14.5	114
43	The SUMO (Small Ubiquitin-like Modifier) Ligase PIAS3 Primes ATR for Checkpoint Activation. *Journal of Biological Chemistry*, **2016**, 291, 279-90	5.4	17
42	Signaling of DNA Replication Stress Through the ATR Checkpoint **2016**, 405-428		
41	Genomic Instability Is Induced by Persistent Proliferation of Cells Undergoing Epithelial-to-Mesenchymal Transition. *Cell Reports*, **2016**, 17, 2632-2647	10.6	58
40	A Zygotic Checkpoint for Unrepaired Lesions. *Cell*, **2016**, 167, 1676-1678	56.2	1
39	Potentiated DNA Damage Response in Circulating Breast Tumor Cells Confers Resistance to Chemotherapy. *Journal of Biological Chemistry*, **2015**, 290, 14811-25	5.4	24
38	Distinct but Concerted Roles of ATR, DNA-PK, and Chk1 in Countering Replication Stress during S□Phase. *Molecular Cell*, **2015**, 59, 1011-24	17.6	189
37	Molecular Pathways: Targeting ATR in Cancer Therapy. *Clinical Cancer Research*, **2015**, 21, 4780-5	12.9	151
36	Noncovalent interactions with SUMO and ubiquitin orchestrate distinct functions of the SLX4 complex in genome maintenance. *Molecular Cell*, **2015**, 57, 108-22	17.6	59
35	RPA-coated single-stranded DNA as a platform for post-translational modifications in the DNA damage response. *Cell Research*, **2015**, 25, 9-23	24.7	220
34	SCF(□TRCP) promotes cell growth by targeting PR-Set7/Set8 for degradation. *Nature Communications*, **2015**, 6, 10185	17.4	27
33	Alternative lengthening of telomeres renders cancer cells hypersensitive to ATR inhibitors. *Science*, **2015**, 347, 273-7	33.3	294
32	PRP19 transforms into a sensor of RPA-ssDNA after DNA damage and drives ATR activation via a ubiquitin-mediated circuitry. *Molecular Cell*, **2014**, 53, 235-246	17.6	161
31	SUMOylation of ATRIP potentiates DNA damage signaling by boosting multiple protein interactions in the ATR pathway. *Genes and Development*, **2014**, 28, 1472-84	12.6	42
30	The BRCA1-interacting protein Abraxas is required for genomic stability and tumor suppression. *Cell Reports*, **2014**, 8, 807-17	10.6	29
29	Suppression of genome instability in pRB-deficient cells by enhancement of chromosome cohesion. *Molecular Cell*, **2014**, 53, 993-1004	17.6	56
28	Four pillars of the S-phase checkpoint. *Genes and Development*, **2013**, 27, 227-33	12.6	17
27	Two distinct modes of ATR activation orchestrated by Rad17 and Nbs1. *Cell Reports*, **2013**, 3, 1651-62	10.6	100

26	DNA damage sensing by the ATM and ATR kinases. *Cold Spring Harbor Perspectives in Biology*, **2013**, 5,	10.2	739
25	Nek1 kinase associates with ATR-ATRIP and primes ATR for efficient DNA damage signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2175-80	11.5	46
24	Sensing of DNA breaks by the ATM and ATR checkpoint kinases. *FASEB Journal*, **2013**, 27, 334.2	0.9	1
23	The conserved C terminus of Claspin interacts with Rad9 and promotes rapid activation of Chk1. *Cell Cycle*, **2012**, 11, 2711-6	4.7	17
22	RPA and POT1: friends or foes at telomeres?. *Cell Cycle*, **2012**, 11, 652-7	4.7	20
21	ATR autophosphorylation as a molecular switch for checkpoint activation. *Molecular Cell*, **2011**, 43, 192-202	17.6	177
20	TERRA and hnRNPA1 orchestrate an RPA-to-POT1 switch on telomeric single-stranded DNA. *Nature*, **2011**, 471, 532-6	50.4	250
19	ATR: a master conductor of cellular responses to DNA replication stress. *Trends in Biochemical Sciences*, **2011**, 36, 133-40	10.3	212
18	A human cell extract-based assay for the activation of ATM and ATR checkpoint kinases. *Methods in Molecular Biology*, **2011**, 782, 181-91	1.4	4
17	The FANCM/FAAP24 complex is required for the DNA interstrand crosslink-induced checkpoint response. *Molecular Cell*, **2010**, 39, 259-68	17.6	101
16	Oligonucleotide/oligosaccharide-binding fold proteins: a growing family of genome guardians. *Critical Reviews in Biochemistry and Molecular Biology*, **2010**, 45, 266-75	8.7	131
15	ATR signaling at a glance. *Journal of Cell Science*, **2009**, 122, 301-4	5.3	51
14	Dual functions of DNA replication forks in checkpoint signaling and PCNA ubiquitination. *Cell Cycle*, **2009**, 8, 191-4	4.7	29
13	Prevalence and functional analysis of sequence variants in the ATR checkpoint mediator Claspin. *Molecular Cancer Research*, **2009**, 7, 1510-6	6.6	9
12	Single-stranded DNA orchestrates an ATM-to-ATR switch at DNA breaks. *Molecular Cell*, **2009**, 33, 547-58	17.6	273
11	Checkpoint Mec-tivation comes in many flavors. *Molecular Cell*, **2009**, 36, 734-5	17.6	4
10	Revealing the DNA Structural Determinants for ATM Activation. *FASEB Journal*, **2009**, 23, 655.1	0.9	
9	Chk1 and Claspin potentiate PCNA ubiquitination. *Genes and Development*, **2008**, 22, 1147-52	12.6	89

8	Single- and double-stranded DNA: building a trigger of ATR-mediated DNA damage response. *Genes and Development*, **2007**, 21, 879-85	12.6	90
7	ATRIP associates with replication protein A-coated ssDNA through multiple interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 580-5	11.5	79
6	Rad17 phosphorylation is required for claspin recruitment and Chk1 activation in response to replication stress. *Molecular Cell*, **2006**, 23, 331-41	17.6	109
5	Sensing DNA damage through ATRIP recognition of RPA-ssDNA complexes. *Science*, **2003**, 300, 1542-8	33.3	2041
4	Replication protein A-mediated recruitment and activation of Rad17 complexes. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 13827-32	11.5	348
3	Regulation of ATR substrate selection by Rad17-dependent loading of Rad9 complexes onto chromatin. *Genes and Development*, **2002**, 16, 198-208	12.6	394
2	DNA Damage: Sensing1		
1	APOBEC3A drives acquired resistance to targeted therapies in non-small cell lung cancer		4